

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Alan J. Kirby

Divisional Application of

Application No.: 09/376,504

Filed: August 18, 1999

For: HYBRID ELECTRONIC/OPTICAL SWITCH SYSTEM

Date: <u>9.12.03</u>
EXPRESS MAIL LABEL NO. <u>EV 215 729374 US</u>

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

This Information Disclosure Statement is submitted:

☐ under 37 CFR 1.129(a), or

(First/Second submission after Final Rejection)

☒ under 37 CFR 1.97(b), or

(Within any one of the following time periods: three months of filing national application (other than a CPA) or date of entry of the national stage in an international application; or before the mailing date of a first office action on the merits in a non-provisional application, including a CPA, or a Request for Continued Examination).

☐ under 37 CFR 1.97(c) together with either:

☐ a Statement under 37 CFR 1.97(e), as checked below, or

☐ a \$180.00 fee under 37 CFR 1.17(p), or

(After the 37 CFR 1.97(b) time period, but before final action or notice of allowance, whichever occurs first)

☐ under 37 CFR 1.97(d) together with:

☐ a Statement under 37 CFR 1.97(e), as checked below, and

☐ a \$180.00 fee under 37 CFR 1.17(p), or

(Filed after final action or notice of allowance, whichever occurs first, but on or before payment of the issue fee)

☐ under 37 CFR 1.97(i):

Applicant requests that the IDS and cited reference(s) be placed in the application filewrapper.

(Filed after payment of issue fee)

Statement Under 37 CFR 1.97(e)

- ☐ Each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement; or
- ☐ No item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned, after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

Statement Under 37 CFR 1.704(d) (Patent Term Adjustment)

Applies to original applications (other than design) filed on or after May 29, 2000

- ☐ Each item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in § 1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.
- ☒ Enclosed herewith is form PTO-1449:
- ☐ Copies of the cited references are enclosed.
- ☒ Copies of cited references are enclosed except those entered in prior application, U.S. Application No. 09/376,504, to which priority under 35 U.S.C. 120 is claimed. [The earlier application contains copies of the cited references.]
- ☐ The listed references were cited in the enclosed International Search Report in a counterpart foreign application.
- ☐ The "concise explanation" requirement (non-English references) for reference(s) [ ] under 37 CFR 1.98(a)(3) is satisfied by:
- ☐ the explanation provided on the attached sheet.
  - ☐ the explanation provided in the Specification.
  - ☐ submission of the enclosed International Search Report.
  - ☐ submission of the enclosed English-language version of a foreign Search Report and/or foreign Office Action.
  - ☐ the enclosed English language abstract.

☐ Applicant requests that the following non-published pending applications be considered:

Examiner's  
Initials

\_\_\_\_\_ U.S. Patent Application No. [ ], by [inventor(s)], filed [ ], Docket No.: [ ]

\_\_\_\_\_ U.S. Patent Application No. [ ], by [inventor(s)], filed [ ], Docket No.: [ ]

\_\_\_\_\_ U.S. Patent Application No. [ ], by [inventor(s)], filed [ ], Docket No.: [ ]

\_\_\_\_\_  
Examiner

\_\_\_\_\_  
Date

☐ A copy of each above-cited application, including the current claims, is enclosed.

☐ A copy of each above-cited application, including the current claims, is enclosed, except those entered in prior application, U.S. Application No. [ ], to which priority under 35 U.S.C. 120 is claimed.

The Examiner is requested to return a copy of the above list of pending applications indicating which references were considered with the next office communication.

It is requested that the information disclosed herein be made of record in this application.

Method of payment:

☐ A check for the fee noted above is enclosed, or the fee has been included in the check with the accompanying Reply. A copy of this Statement is enclosed.

☐ Please charge Deposit Account 08-0380 in the amount of \$[ ]. A copy of this Statement is enclosed.

☒ Please charge any deficiency in fees and credit any overpayment to Deposit Account 08-0380.

Respectfully submitted,

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

By 

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Concord, MA 01742-9133

Dated: 9/12/3

PTO-1449 REPRODUCED  <b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b>  <b>September 2, 2003</b>  (Use several sheets if necessary)	ATTORNEY DOCKET NO. 0050.1613-002		DIV. OF APPLICATION NO. 09/376,504	
	APPLICANT Alan J. Kirby			
	FILING DATE	CONFIRMATION NO.	GROUP	

U.S. PATENT DOCUMENTS				
EXAM- INER INI- TIAL	REF. NO.	DOCUMENT NUMBER	ISSUE DATE / PUBLICATION DATE	NAME
	AA	4,873,681	10/10/89	Arthurs et al.
	AB	5,077,727	12/31/91	Suzuki
	AC	5,327,423	07/05/94	Audouin et al.
	AD	5,351,146	09/27/94	Chan et al.
	AE	5,438,445	08/01/95	Nakano
	AF	5,479,287	12/26/95	Johansen et al.
	AG	5,504,609	04/02/96	Alexander et al.
	AH	5,541,756	07/30/96	Chang-Hasnain et al.
	AI	5,559,625	09/24/96	Smith et al.
	AJ	5,712,932	01/27/98	Alexander et al.
	AK	5,712,942	01/27/98	Jennings et al.
	AA2	5,726,783	03/10/98	Cooper et al.
	AB2	5,485,297	01/16/96	Sotom
	AC2	5,774,244	06/30/98	Tandon et al.
	AD2	5,801,861	09/01/98	Majima
	AE2	5,847,852	12/08/98	Domon et al.
	AF2	5,862,138	01/19/99	Liu
	AG2	5,500,860	03/19/96	Perlman et al.
	AH2	5,796,740	08/18/98	Perlman et al.
	AI2	5,892,924	04/06/99	Lyon et al.
	AJ2			
	AK2			
	AA3			
	AB3			
	AC3			

EXAMINER	DATE CONSIDERED
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FOREIGN PATENT DOCUMENTS					
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO
	AL	0 614 291 A1	07-SEP-94	EPO	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
	AR	Alexander, S. B., <i>et al.</i> , "A Precompetitive Consortium on Wide-Band All-Optical Networks," <i>J. of Lightwave Technology</i> , pp. 714-735 (May-June, 1993).
	AS	Kaminow, I. P., <i>et al.</i> , "A Wideband All-Optical WDM Network," <i>IEEE Jour. on Selected Areas in Communications</i> , pp. 780-799 (1996, June).
	AT	Nishio, M., and Suzuki, S., "WD&MMT Switching Networks in Combination with Photonic and Electronic Switching Technique," <i>IEEE</i> , pp. 0590-0596 (1991).
	AU	Lentine, A. L., <i>et al.</i> , "Optoelectronic ATM Switch Employing Hybrid Silicon CMOS/GaAs FET-SEEDs," <i>SPIE</i> , pp. 100-108 (1996, February).
	AV	Parry, G., <i>et al.</i> , "Optical Switching Networks for Communication Systems," Dept. of Electronic & Electrical Engineering, Univ. College London, pp. 189-206.
	AW	Chan, V.W.S., <i>et al.</i> , "Architectures and Technologies for High-Speed Optical Data Networks," <i>J. of Lightwave Technology</i> , pp. 2146-2168 (1998, December).
	AX	Mei, Y., and Qiao, C., "Efficient Distributed Control Protocols for WDM All-Optical Networks," Abstract, Dept. of ECE, SUNY at Buffalo, pp. 1-4.
	AY	Dubinsky, Y., and Segall, A., "A Flexible Rerouting Protocol in ATM Networks," <i>IEEE</i> , pp. 1488-1496 (1999, June).
	AZ	Ayanoglu, E., "Reduction of Restoration Capacity Requirements in Advanced Optical Networks," GlobeCom '95, IEEE Global Tele-communications Conf., Singapore, pp. 1018-1022 (Nov. 14- Nov. 16, 1995).
	AR2	Widjaja, I., <i>et al.</i> , "Scalability Evaluation of Multi-Protocol Over ATM (MPOA)," <i>IEEE</i> , pp. 1505-1512 (1999, June).

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
AS2	Castanon, G. A., and Tonguz, O. K., "Combined Teletraffic/Transmission Performance of Optical Cross-Connected Networks Using Hybrid-Store-and Forward," Globecom 97, IEEE Telecommunications Conf., pp. 856-862 (1997, August).	
AT2	Bannister, J., et al., "How Many Wavelengths Do We Really Need In An Internet Optical Backbone?," November 1998.	
AU2	Bannister, J., et al., "How Many Wavelengths Do We Really Need? A Study of Packets Over Wavelengths," <a href="http://www.comsoc.org/tcgn/conference/gbn98/bannister-slides.pdf">http://www.comsoc.org/tcgn/conference/gbn98/bannister-slides.pdf</a> , presented November 16, 1998.	
AV2	"WDM Technology Meets IP Switching," <a href="http://www.comsoc.org/tcgn/conference/gbn99/bannister-presentation.pdf">http://www.comsoc.org/tcgn/conference/gbn99/bannister-presentation.pdf</a> , March 1998.	

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